

U.S. Army Corps of Engineers
Kansas City District
Attn: Mr. Ken Maas
Federal Building CT-H
601 E 12th Street
Kansas City, MO 64106-2896

Arcadis U.S., Inc.
50 Fountain Plaza
Suite 600
Buffalo
New York 14202
Tel 716 667 0900
Fax 716 667 0279
www.arcadis.com

Subject:

Cornell-Dubilier Electronics Superfund Site Operable Unit 4
Phase 1 – Capacitor Debris Area and
Phase 2 – Water Line Replacement
Final Design Submittal

ENVIRONMENT

Date:

August 31, 2018

Contact:

Ben Girard

Phone:

716-667-6645

Email:

Ben.girard@arcadis.com

Dear Mr. Maas:

Arcadis U.S., Inc. and Louis Berger are pleased to submit the signed and sealed combined Final Design for the Phase 1 – Capacitor Debris Area and Phase 2 – Water Line Replacement of the Operable Unit 4 Cornell-Dubilier Electronics Superfund Site. The Final Design Drawings, Design Specifications, and Design Analysis Report (DAR) are available for direct download via separate electronic email link. The Final Cost Estimate will be submitted at a later date.

The package contains the following elements:

- Final Design Drawings: Combined Cover sheet, Phase 1-specific drawings ("G" drawings, sheets 2-40), and Phase 2-specific drawings ("W" drawings, sheets 41-57);
- Final Design Specifications: Combined Division 00 and 01 sections, Phase 1-specific sections, and Phase 2-specific sections (ending in .99);
- Draft Final Bid Schedule (Specification Section 00 01 00), which will be finalized once the construction cost estimate is finalized; and
- Final DAR: Phase 1 DAR containing the Phase 2 DAR as Appendix A.

These documents incorporate changes as outlined in Government comments received on the 100% Design and Arcadis and Louis Berger responses to those comments. The Quality Review forms specific to each firm are also attached to this letter, as requested.

Mr. Ken Maas
August 31, 2018

We anticipate forwarding hard copies and electronic copies next week as follows:

- Two sets for USEPA (half size drawings, all specs, DAR);
- One set for USACE-KCD (full size drawings, all specs, DAR);
- Two sets for USACE-NYD (one full size drawings, one half size drawings, all specs, DAR); and
- One electronic set on DVD to each Federal agency.

Should you require any additional information or have any comments regarding this submittal, please contact Ben at 716-667-6645 or Ed at 914-798-3711.

Sincerely,

Arcadis U.S., Inc.



Ben Girard
Project Manager

Louis Berger



Edward A. Dudek Jr., PE
Project Manager

Copies:

USEPA: M. Austin, D. Garcia

USACE-KCD: R. Pender, A. Mason, P. Speckin

USACE-NYD: N. Kolb, P. Nejand, R. Gajdek

Arcadis: B. Kerbel, D. Caballero, M. Nasca, M. Shivell

Louis Berger: K. Goldstein, S. McGonigal, S. Bailey, T. Payne, M. Kracov

Attachments:

Arcadis Document QC Checklist

Louis Berger Quality Review Checklist

Enclosures (via electronic file link):

CDE OU4 Combined Final Design Drawings

CDE OU4 Combined Final Design Specifications

CDE OU4 Combined Final Design DAR

CDE OU4 Combined Draft Final Bid Schedule

ATTACHMENT 1

Arcadis Document QC Checklist












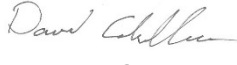
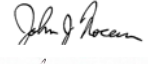

DOCUMENT QC CHECKLIST

Document Status:

☐ DRAFT

☒ FINAL DRAFT

☐ FINAL

Reviews and Approvals	Assigned Staff	Signature	Date
1. Site Map Checked	TM: N/A	N/A	
2. Data Management/Database	Staff: N/A	N/A	
3. Data Validated	Lab: N/A	N/A	
4. Data Tables Checked	Staff: N/A	N/A	
5. Data Screening	Staff: N/A	N/A	
6. DAR Quantities Verified	Senior Staff: Mike Shivel		15 AUG 18
7. Internal Draft Complete	Mike Nasca		28 AUG 18
8. Report Formatting	Bridget Butterly		28 AUG 18
Format Check	Bridget Butterly		
Acronyms	Bridget Butterly		
Tables	Bridget Butterly		
Appendices	Bridget Butterly		
Attachments/Exhibits	Bridget Butterly		
References	Bridget Butterly		
Spell Check (including tables)	Bridget Butterly		
9. Report Data QA Review	Staff: N/A		
10. Senior Tech/TKI Review	Senior Staff as needed:		
Hydrogeo/Modeling	Jane Gregg		28 AUG 18
Risk	N/A		
Engineering	Heather VanDewalker		28 AUG 18
Technical Edit	Bridget Butterly		28 AUG 18
Other: Specs	Luke Goetz		28 AUG 18
Other: Costs	NA		
11. Task Manager Approval	Mike Nasca		28 AUG 18
12. PM Approval	Ben Girard		28 AUG 18
13. Other Approval (e.g., QC)	David Caballero		28 AUG 18
	John Nocera		28 AUG 18
14. PDF/File Final Document	Bridget Butterly		28 AUG 18

ATTACHMENT 2

Louis Berger Quality Review Checklist



**PROJECT TEAM QUALITY REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**

DELIVERABLE INFORMATION

WORK PHASE: Phase 2 Water Line Replacement

DELIVERABLE TITLE: Final Design Analysis Report, Specifications, Drawings

DATE DELIVERABLE PREPARED / VERSION: August 31, 2018, Version 00

DELIVERABLE AUTHOR(S): Aliza Gold, Mike Kracov

Each reviewer should indicate for any element whether separate supporting comments were provided and the date(s).

TEXT AND REFERENCES		
1) FORMAT AND GRAMMAR		
ELEMENT	COMMENTS	INITIALS
All scoped and appropriate technical aspects of the deliverable are addressed		SLB TWP
The document sections are in a logical, organized order		SLB TWP
All applicable parts of the document are included		SLB
Writing styles are consistent among the various sections		SLB
Formatting is correct and consistent throughout the document		SLB AG, MK
Spelling and grammatical errors are not present		SLB AG,
References are consistent between the text and the list of references		AG
Reference citations are correct in content and consistent in style		AG

**PROJECT TEAM QUALITY REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**

2) TECHNICAL CONTENT		
ELEMENT	COMMENTS	INITIALS
The correct data sets have been extracted from the database for evaluation		NA
Observations are correct and data evaluations are appropriate, complete, and unambiguous		MK TWP
Conclusions stated are correct and supported by the data and evaluations		MK TWP
EXHIBITS AND APPENDICES		
1) FORMAT		
ELEMENT	COMMENTS	INITIALS
Exhibit content and format are correct and complete, and consistent between the exhibits and text		AG
Exhibit titles are consistent between the text and the lists of exhibits (tables, figures and drawings)		AG
Appendix or attachment content and format are correct and complete, and consistent between the exhibits and text		SLB AG
Appendix or attachment titles are consistent between the text and the list of appendices		AG
References to exhibits (tables, figures and drawings) are correct		AG

**PROJECT TEAM QUALITY REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**

2) TECHNICAL CONTENT		
ELEMENT	COMMENTS	INITIALS
Sample locations are correctly identified and labeled on exhibits		MK TWP
Data are correctly displayed on exhibits		MK TWP
Data interpretations displayed are correct and unambiguous		NA
DATABASE AND GIS		
ELEMENT	COMMENTS	INITIALS
The database modules work properly and are user friendly		NA
The database modules are consistent with the system design		NA
The system is organized logically		NA
GIS maps are properly constructed and each component or layer contains the proper selection of data and works properly		NA

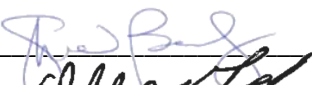
**PROJECT TEAM QUALITY REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**

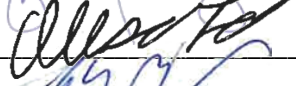
COMPILATION AND REPRODUCTION		
ELEMENT	COMMENTS	INITIALS
A complete copy of the document has been produced electronically and properly converted to portable document format with appropriate bookmarks		AG, MK
The electronic document is named according to the project convention		AG
Table of contents and any supporting sections required, such as acronyms sheet or index, are present and correct		AG, MK
Pages have not been omitted from paper copies	Electronic deliverable only	NA
Pages are not provided in duplicate in paper copies	Electronic deliverable only	NA
Outside and inside covers and spine have been prepared in appropriate color format, and title, date and client information are correct	Electronic deliverable only	NA
Overall document quality is acceptable		SLB AG, MK TWP


**PROJECT TEAM QUALITY REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**


By my initials entered above and my signature below, I affirm that I have reviewed the document named for each element indicated. Conditional upon incorporation of the comments indicated above, the document is approved for submittal to the client.

Document Approved X Unconditionally Conditionally

Reviewer: Sharon Bailey _____ Signature:  Date: 8/31/18 _____

Reviewer: Aliza Gold _____ Signature:  Date: 8/31/18 _____

Reviewer: Thomas Payne _____ Signature:  Date: 8/31/18 _____

Reviewer: Michael Kracov _____ Signature:  Date: 8/31/18 _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

CORRECTIVE ACTIONS REQUIRED FOR APPROVAL		INITIALS
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

By my initials entered above and my signature below, I affirm that I have reviewed the document named for each element indicated. The document must be revised to incorporate the corrective actions indicated above and resubmitted for quality review prior to submittal to the client.

Document Required to be Resubmitted for Quality Review _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

**QUALITY CONSULTANT REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**

DELIVERABLE INFORMATION

WORK PHASE: Phase 2 Water Line Replacement

DELIVERABLE TITLE: Final Design Analysis Report, Plans and Specifications

DATE DELIVERABLE PREPARED / VERSION: August 31, 2018, Version 00

DELIVERABLE AUTHOR(S): Aliza Gold, Mike Kracov

Each reviewer should indicate for any element whether separate supporting comments were provided and the date(s).


ELEMENT	COMMENTS	INITIALS
The report covers all aspects of the schedule of services		ED SM
Information is adequately presented		ED SM
Data compilation is accurate and data are properly interpreted		ED SM
Calculations have been checked	Not applicable	
Statements and conclusions are valid		ED SM
Discussions are concise		ED SM
Writing styles are consistent		ED SM

**QUALITY CONSULTANT REVIEW CHECKLIST
CORNELL-DUBILIER ELECTRONICS SUPERFUND SITE
OU4 REMEDIAL DESIGN**

CORRECTIVE ACTIONS	INITIALS
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

By my initials entered above and my signature below, I affirm that I have reviewed the document named for each element indicated. Conditional upon incorporation of the corrective actions indicated above, the document is approved for submittal to the client.

Document Approved ☒ Unconditionally ☐ Conditionally

Reviewer: Ed Dudek, Jr _____ Signature:  _____ Date: 8/31/18 _____

Reviewer: Sean McGonigal _____ Signature:  _____ Date: 8/31/18 _____

Reviewer: _____ Signature: _____ Date: _____

By my initials entered above and my signature below, I affirm that I have reviewed the document named for each element indicated. The document must be revised to incorporate the corrective actions indicated above and resubmitted for quality review prior to submittal to the client.

Document Rejected _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____

Reviewer: _____ Signature: _____ Date: _____